

## ABSTRACT OF THE DISCLOSURE

In a voltage generating apparatus, a slow or rapid  
discharging amplifier is connected between an input terminal  
5 and an output terminal, and a rapid or slow charging amplifier  
is connected between the input terminal and the output  
terminal. An offset voltage generating element is connected  
between the input terminal and one of the slow or rapid  
discharging amplifier and the rapid or slow charging amplifier,  
10 so that an input voltage applied to the slow or rapid  
discharging amplifier is higher than an input voltage applied  
to the rapid or slow charging amplifier.